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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,498	05/01/2001	Noribumi Koitabashi	684.3183	2379

5514 7590 02/04/2003

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EXAMINER
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NGUYEN, THINH H

ART UNIT	PAPER NUMBER
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2861

DATE MAILED: 02/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/845,498.	KOITABASHI ET AL.
<b>Period for Reply</b>	Examiner	Art Unit
	Thinh H Nguyen	2861
<i>-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --</i>		
<b>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</b>		
<ul style="list-style-type: none"> <li>- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>		
<b>Status</b>		
1) <input type="checkbox"/> Responsive to communication(s) filed on ____.		
2a) <input type="checkbox"/> This action is FINAL.                    2b) <input checked="" type="checkbox"/> This action is non-final.		
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
<b>Disposition of Claims</b>		
4) <input checked="" type="checkbox"/> Claim(s) <u>51</u> is/are pending in the application.		
4a) Of the above claim(s) ____ is/are withdrawn from consideration.		
5) <input type="checkbox"/> Claim(s) ____ is/are allowed.		
6) <input checked="" type="checkbox"/> Claim(s) <u>1-51</u> is/are rejected.		
7) <input type="checkbox"/> Claim(s) ____ is/are objected to.		
8) <input type="checkbox"/> Claim(s) ____ are subject to restriction and/or election requirement.		
<b>Application Papers</b>		
9) <input type="checkbox"/> The specification is objected to by the Examiner.		
10) <input type="checkbox"/> The drawing(s) filed on ____ is/are: a) <input type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) <input type="checkbox"/> The proposed drawing correction filed on ____ is: a) <input type="checkbox"/> approved b) <input type="checkbox"/> disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) <input type="checkbox"/> The oath or declaration is objected to by the Examiner.		
<b>Priority under 35 U.S.C. §§ 119 and 120</b>		
13) <input checked="" type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) <input checked="" type="checkbox"/> All    b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of:		
1. <input checked="" type="checkbox"/> Certified copies of the priority documents have been received.		
2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. ____.		
3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.		
15) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
<b>Attachment(s)</b>		
1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)		
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)		
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.		
4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s) ____.		
5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)		
6) <input type="checkbox"/> Other: ____.		

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

2. Claims 1-33, 45-51 are rejected under 35 U.S.C. § 102(e) as being anticipated by Murcia et al. (U.S. 6,270,187)

Murcia et al. (see reassigning means, fig.8; see also abstract) discloses every element of the instant claimed invention including different operation approaches by supplementing ink for one of the failed nozzles.

One approach is to print in supplementation in a different manner, for example, in substantially one single pass mode or maybe in multipass mode, thereby to effect the throughput of the print image.

Another approach is to print in supplementation the same color as the failed nozzle(s).

Yet another approach is to assign a print nozzle preferably next to the failed nozzle.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 34-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murcia et al. in view of Hermanson. (U.S. 5,581,284)

Murcia et al. teach the instant claimed apparatus and method of printing for compensating nozzles failure except for printing the black ink in substitution for the non-operative nozzles corresponding to non-black color recording ink.

Hermanson teaches detecting the problem nozzle and compensating the missing dot corresponding to the problem nozzle with ink of different color. For example, black ink can be filled in for missing cyan or magenta droplets. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the missing non-black color ink with the black color ink in Murcia et al. as taught by Hermanson for preventing the missing spot and providing adequate printing quality.

***Response to Amendment***

Applicant's amendment filed November 5, 2002 have been fully considered. However, arguments with respect to claims 1-51 are moot in view of the newly

Art Unit: 2861

discovered reference to Murcia et al. and Hermanson as noted in the above new ground(s) of rejections.

***Contact Information***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh Nguyen whose telephone number is (703) 308-7487.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.



Thinh Nguyen

January 26, 2003

**Thinh Nguyen  
Primary Examiner  
Technology Center 2800**